PROGRAM
Joint Meeting of Society for Leukocyte Biology &
International Endotoxin and Innate Immunity Society

“Development of Innate Immunity”

October 23-25, 2014
Salt Lake City Sheraton
Salt Lake City, Utah

Organizers: Daniel Remick, Boston University School of Medicine (SLB) &
Ofer Levy, Boston Children’s Hospital and Harvard Medical School (IEIIS)

Abstract numbers are indicated in the left margin. Poster board numbers are listed where applicable.

Thursday, October 23rd

8:00 am - 6:00 pm Registration
Location: Canyons Lobby

8:00 - 11:00 am Society Council Meetings
Location: SLB – Emigration; IEIIS- City Creek

11:00 am - 12:00 pm Street Smarts of Science
Location: Wildcat

Senior SLB advisors will impart their knowledge of how to survive in academia in a session designed around the needs of graduate students. Those currently enrolled in graduate school, medical school, and combined degree programs, may need help navigating the waters. Join us in Salt Lake City to do just that!

12:00 - 6:00 pm Exhibits
Location: Canyons Lobby

12:00 - 12:15 pm President’s Welcome
Ann Richmond, SLB, and Jerry Weiss, IEIIS
Location: The Canyons

12:15 - 2:15 pm Plenary I - Immune Phenylogeny
Chair: Lyle Moldawer, University of Florida
Location: The Canyons

12:15 pm Limitations and Advantages of Mammalian Models for Inflammation

Research, Lyle Moldawer, University of Florida

12:45 pm Zebrafish Models for the Study of Inflammation and Immunity, Stephen Renshaw, University of Sheffield Medical School, United Kingdom

1:15 pm Drosophila melanogaster as a Model System to Investigate Host-Pathogen Interactions, Laurence Rahme, Harvard Medical School

1 1:45 pm Comparative Genomics for the Identification of Novel Innate Immunity Regulators, Scott Alper, National Jewish Health, University of Colorado Health Science Center

2:15 - 2:30 pm Coffee Break

2:30 - 4:15 pm SLB and IEIIS Student Awards
Location: The Canyons

2:30 pm Award Introductions

2 SLB Junior Faculty/Postdocs Presidential Award Finalist

2 2:45 pm Damage Associated Molecular Patterns (DAMPs)-Activated Neutrophil Extracellular Trap Formation Exacerbates Sterile Inflammatory Liver Injury, Hai Huang, University of Pittsburgh
Poster B1
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 pm</td>
<td><strong>The Melanocortin-Adenosinergic Pathway Mediates Immune Tolerance through a PD-1/PD-1L Dependent Mechanism</strong>, Darren Lee, Boston University School of Medicine <em>Poster B96</em></td>
</tr>
<tr>
<td>3:15 pm</td>
<td><strong>Sensing Death: How the SaeR/S System Hijacks Cell Fate to Promote Disease</strong>, Oliwia Zurek, Montana State University <em>Poster B2</em></td>
</tr>
<tr>
<td>3:30 pm</td>
<td><strong>MHCII+ PMN Arise during Acute Cutaneous Leishmania Infection and Can Influence T Cells</strong>, Richard Davis, University of Iowa <em>Poster B3</em></td>
</tr>
<tr>
<td>3:45 pm</td>
<td><strong>Isolation of Oligopotent Granulocyte-Monocyte Progenitors and Lineage-Committed Granulocyte Progenitors and Monocyte Progenitors from Mouse Bone Marrow</strong>, Alberto Yanez, Cedars-Sinai Medical Center <em>Poster B4</em></td>
</tr>
<tr>
<td>4:00 pm</td>
<td><strong>Massive Neutrophil Extravasation during Sepsis and TLR2-Induced Cytokine Production Are Regulated by Integrin α3β1</strong>, Yelena Lerman, University of Rochester <em>Poster B5</em></td>
</tr>
</tbody>
</table>

4:15–4:30 pm **BREAK**

4:30–6:00 pm **SLB and IEIIS Senior Level Awards**

*Location: The Canyons*

4:30 pm **Award Introductions**

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**SLB – Dolph Adams Award**

8 4:40 pm **Intrabronchial Infection of Rhesus Macaques with Simian Varicella Virus Results in a Robust Mucosal Immune Response**, Ilhem Messaoudi, University of California Riverside *Poster B56*

**SLB – G. Jeannette Thorbecke Award**

9 5:00 pm **Regulating the Regulators: Regulatory Programs of Dendritic Cell Migration**, Stephanie Eisenbarth, UCYale University *Poster B31*

**IEIIS – Senior Awards**

5:15 pm **IEIIS – Alois H. Nowotny Award**

5:30 pm **IEIIS – Frederick B. Bang Award**

5:45 pm **IEIIS – Sheldon E. Greisman Award**

6:00 - 7:00 pm **Opening Reception**

7:00 - 8:00 pm **Plenary II – Bonazinga Keynote Lecture**

*Sponsored by Accurate Chemical*

*Location: The Canyons*

Defective Inflammation Resolution and Innate Immunity in Atherosclerosis: Mechanisms and Therapeutic Opportunities

Ira Tabas, *Columbia University, Bonazinga Award Winner*
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>8:00 am - 5:00 pm</td>
<td>Registration</td>
<td>Canyons Lobby</td>
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<tr>
<td>7:00 am - 9:00 am</td>
<td>Society Committee Meetings</td>
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<tr>
<td>8:00 am - 6:30 pm</td>
<td>Exhibits</td>
<td>Canyons Lobby</td>
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<tr>
<td>9:30 am - 10:00 am</td>
<td>SLB Member Business Meeting</td>
<td>Bryce</td>
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<tr>
<td>9:30 am - 10:00 am</td>
<td>IEIIS Member Business Meeting</td>
<td>Arches</td>
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<tr>
<td>10:00 am - 12:00 pm</td>
<td>Plenary III – Immune Ontogeny</td>
<td>The Canyons</td>
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<tr>
<td>11:30 am</td>
<td>TBA Special Guest Speaker (look for details in the late breaking program flyer)</td>
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<tr>
<td>12:00 pm - 1:30 pm</td>
<td>Grant Writing Workshop</td>
<td>Wildcat</td>
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<tr>
<td>12:00 pm - 1:30 pm</td>
<td>Networking Sessions with Lunch</td>
<td>Wasatch</td>
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**Friday, October 24th**

**Plenary III – Immune Ontogeny**

Chair: Ruth Montgomery, Yale University

- **10:00 am** Dysregulation of Innate Immunity in Aging, Ruth Montgomery, Yale University
- **10:30 am** Ontogeny of Toll-Like Receptor Function in Human Newborns and Infants: Mechanisms, Clinical Correlates, and Translational Opportunities, Ofer Levy, Boston Children’s Hospital and Harvard Medical School
- **11:00 am** The Development and Functional Diversity of the Innate Immune Responses in Humans, Pascal Lavoie, University of British Columbia

**Concurrent Sessions**

**Concurrent 1: Granulocytes and Their Progenitors**

Chair: Mariana Kaplan, National Institutes of Health

Co-Chair: Sergey Novitskiy, Vanderbilt University

- **1:30 pm** Neutrophils in the Pathogenesis of Systemic Autoimmune Diseases, Mariana Kaplan, NIAMS/NIH

**10:00 pm** The Role of CXCR2 in the Host Response to Salmonella typhimurium Colitis, Suzi Klaus, University of California Irvine *Poster B6*
## Friday, October 24th (con’t)

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>11 2:15 pm</td>
<td>Dysregulation of Neutrophil-Maintained Bone Marrow Hematopoietic Niche Induces Inflammatory Myelopoiesis, Norifumi Urao, University of Illinois at Chicago</td>
<td>The Canyons</td>
<td>Poster B7</td>
</tr>
<tr>
<td>12 2:30 pm</td>
<td>Disruption of the Polysoprenyl Diphosphate Phosphatase 1 Gene Enhances Neutrophil-Dependent Bacterial Clearance in a Murine Model of Pneumonia, Carlo Troy, Brigham and Women's Hospital/Harvard Medical School</td>
<td>The Canyons</td>
<td>Poster B8</td>
</tr>
<tr>
<td>13 2:45 pm</td>
<td>NADPH Oxidase Limits Sterile Inflammation by Modulating IL-1/G-CSF-Driven Neutrophilic Inflammation, Juhi Bagaitkar, Washington University in St. Louis, <em>SLB Travel Award Winner</em></td>
<td>The Canyons</td>
<td>Poster B9</td>
</tr>
</tbody>
</table>

### Concurrent 2: Regulation of Host-Microbe Interactions by Reprogramming/Remodeling of MAMPs/PAMPs

*Location: The Canyons*

Co-Chairs: M. Stephen Trent, University of Texas, Austin; Robert Munford, NIAID/NIH; Robert Ernst, University of Maryland Sch. of Dent.

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</thead>
<tbody>
<tr>
<td>1:30 pm</td>
<td>Remodeling of Gram-Negative Lipopolysaccharides, M. Stephen Trent, University of Texas, Austin</td>
<td>The Canyons</td>
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### Concurrent 3: Special Journal Session: Best of JLB and Innate Immunity

*Location: Arches*


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<tr>
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<th>Session</th>
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<th>Presenters</th>
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<tbody>
<tr>
<td>1:30 pm</td>
<td>Article Introduction by Editors</td>
<td>Arches</td>
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<tr>
<td>18 1:45 pm</td>
<td>Women and Diversity Paper of the Year Award Natural Killer Cell-Mediated Adaptive Immunity in Trans-nuclear Mice and Humanized Mice, Silke Paust, Leidos Baylor College of Medicine</td>
<td>Arches</td>
<td>Poster B30</td>
</tr>
<tr>
<td>2:00 pm</td>
<td>The Role of DNA Sensing and Innate Immune Receptor TLR9 in Otitis Media, Allen Ryan</td>
<td>Arches</td>
<td>Innate Immunity 2012 18 3-13</td>
</tr>
</tbody>
</table>
Friday, October 24th (con’t)

3:00-3:30 pm  Networking Coffee Break
Location: Canyons Lobby

3:30-5:00 pm  Concurrent Sessions

Concurrent 4: Structure and Function of Pattern Recognition Receptors or Their Targets
Location: Bryce
Chair: Kensuke Miyake, University of Tokyo
Co-Chair: Aaron Neumann, University of New Mexico

19  3:30 pm  Structure and Function in Toll-Like Receptors, Kensuke Miyake, University of Tokyo

20  4:00 pm  Pellino-1 and Pellino-3b in TLR Signaling and Tolerance, Andrei Medvedev, University of Connecticut Health Center  
Poster B32

21  4:15 pm  Allergy- Protective Activation of Dendritic Cells by the Cowshed Bacterium Lactococcus lactis G121 Requires Endosomal Acidification and Activation through TLR13, Holger Heine, Research Center Borstel  
Poster B33

137  4:30 pm  Inflammatory Caspases Are Innate Immune Receptors for Intracellular LPS, Feng Shao, National Institute of Biological Sciences, Beijing,  
Poster LB17

23  4:45 pm  Micro- and Nanoscale Spatial Organization of Candida β-Glucan and C-Type Lectins during Innate Immune Fungal Recognition, Aaron Neumann, University of New Mexico  
Poster B35

Concurrent 5: Animal Models:
Challenges and New Developments
Location: The Canyons
Co-Chairs: Stefanie Vogel, University of Maryland Baltimore; H. Shaw Warren, Harvard Medical School, Massachusetts General Hospital

3:30 pm  Interplay of Innate Signaling Pathways in Response to Viral Infection, Stefanie Vogel, University of Maryland Baltimore

4:00 pm  Animal Models for Human Diseases; A Possible Path Forward, H. Shaw Warren, Harvard Medical School, Massachusetts General Hospital

24  4:30 pm  Mirroring the Complexity of Human Inflammatory Uveitis in Animal Models, Rachel Caspi, NEI/NIH  
Poster B51

25  4:45 pm  C1q Modulation of Cytokine Production in Human and Mouse Macrophages during Clearance of Atherogenic Lipoproteins Correlates with Suppression of NFkB Activity, Weston Spivka, California State University, Long Beach, *SLB Travel Award Winner, Poster B52

Concurrent 6: Immunological Assays
Location: Arches
Chair: Julio Delgado, University of Utah School of Medicine
Co-Chair: Silke Paust, Baylor College of Medicine

3:30 pm  New Diagnostic Assays for Human Immune Diseases, Julio Delgado, University of Utah School of Medicine

26  4:00 pm  New Challenges of Endotoxin Detection in Modern Pharmaceuticals, Johannes Reich, University Regensburg, Germany  
Poster B57

27  4:15 pm  Acute Phase Deaths from Polymicrobial Sepsis are Characterized by Suppression, but Not Exhaustion, of Innate Immunity, Evan Chiswick, Boston University, *SLB Travel Award Winner, Poster B58

28  4:30 pm  Ethanol Intoxication Amplifies Pro-inflammatory Phenotype on Pre-alveolar Macrophages after Post-burn Pulmonary Infection, Jill Ippolito, Loyola University Chicago, *SLB Travel Award Winner, Poster B59
Friday, October 24th (con’t)

29  4:45 pm Identification of a Second Patient with p40phox Chronic Granulomatous Disease, Douglas Kuhns, Leidos Biomedical Research, Inc., Frederick National Laboratory for Cancer Research  Poster B60

5:00-6:30 pm Poster Session I - Reception
Location: Alta-Deer Valley and Lodge Lobby

Please join us for light fare and refreshments while you enjoy the poster presentations. Only odd number posters present in Session I.

7:00 - 8:00 pm Individual Development Plan (IDP) Workshop
(pre-registration required)
Location: Wildcat
Organizer: Louis Justement

The Individual Development Plan (IDP) Workshop is designed to introduce this web-based instrument that allows an investigator to assess her/his career objectives and delineate possible opportunities extending beyond academic research, such as pharmaceutical companies, science policy, science writing, patent law, etc. It will be led by Dr. Louis Justement, Professor at the Department of Microbiology, University of Alabama at Birmingham School of Medicine. Following the presentation of the IDP basics, participants will be assigned to 4-5 round tables where they will begin to work hands-on developing their individual IDPs on their laptops.

8:00 - 9:00 pm Members in Transition and Training Committee – Exploratory Meeting (MTTC)
Location: Wildcat

Join us for a conversation exploring the possibility of a new SLB committee.

Saturday, October 25th

8:00 am-5:00 pm Registration
Location: Canyons Lobby

8:00 am-4:30 pm Exhibits
Location: Canyons Lobby

7:30 – 9:30 am Women and Diversity Session with Breakfast
(pre-registration required)
Location: Wildcat
Organizer: Elizabeth Fitzpatrick

This annual Women and Diversity Committee Round Table Discussion will focus on Negotiating. Featured keynote speaker Dr. Jill Suttles, Associate Dean of Faculty Affairs, University of Louisville, Louisville, KY will offer a talk on tips for negotiating job offers/promotions. In addition, Dr. Luis Montaner, Editor-in-Chief of JLB, Professor, Wistar Institute Philadelphia, PA will speak on negotiating with Journal editors.

9:30-11:00 am Plenary IV – Microphysiologic Systems and Bioengineering
Location: The Canyons
Chair: Dan Huh, University of Pennsylvania

9:30 am A Microphysiologic Human Tissue Construct Recreates In Vivo-Like Autologous Antigen-Specific Newborn CD4 T Cell Responses to BCG Vaccine, Guzman Sanchez-Schmitz, Boston Children’s Hospital and Harvard Medical School

10:00 am Microengineered Physiological Bio-mimicry: Human Organs-on-Chips, Dan Huh, University of Pennsylvania

10:30 am Platform Technologies for Interacting Organ Microsystems, Jeffery Borenstein, Draper Laboratory
Saturday, October 25th (con’t)

11:00 – 11:30 am Networking Coffee Break
Location: Canyons Lobby

11:30 am - 1:00 pm Plenary V – Targeting Immunity to Treat Disease
Location: The Canyons
Chair: David Fox, University of Michigan

11:30 am Targets for Biologic Therapeutics in the Treatment of Inflammatory Arthritis, David Fox, University of Michigan

12:00 pm Revising Therapeutic Strategies in Systemic Lupus, Betty Diamond, The Feinstein Institute for Medical Research

12:30 pm Jakiniibs: Bedside to Genomic Switches, John O’Shea, NIAMS/NIH

1:00-2:30 pm Poster Session II - Lunch
Location: Alta-Deer Valley and Courtyard Lobby
Please join us for lunch while you enjoy the poster presentations. Only even number posters present in Session II.

2:30-4:00 pm Concurrent Sessions

Concurrent 7: Masts Cells, Monocytes and Macrophages
Location: Bryce
Chair: Stephen J. Galli, Stanford University School of Medicine
Co-Chair: Laura Sly, University of British Columbia

2:30 pm Roles of Mast Cells and Th2 Responses in Enhancing Host Resistance to Venoms: Is This an Origin of Allergy?
Stephen J. Galli, Stanford University School of Medicine

30 3:00 pm Big MAP Kinase 1/ERK5 Mediates Toll-Like Receptor 2- and 4-Dependent Inflammatory Responses in Endothelial Cells and Monocytes, Katherine Farrar, University of California, San Francisco
Poster B64

31 3:15 pm Polyarginine and Hyaluronic Acid-Based Coating for Titanium Implants Suppresses Inflammatory Responses in Macrophages, Vladimir Ryabov, Medical Faculty Mannheim, Heidelberg University
Poster B65

32 3:30 pm CD14-Independent Receptor Internalization and Signaling Mediated by TLR4/MD2 Agonistic Antibody, Rajesh Rajaiah, University of Maryland Baltimore IEIS Travel Award Winner, Poster B66

33 3:45 pm Francisella tularensis Schu S4 O-Antigen and Capsule Mutants Induce Programmed Necrosis in Primary Human and Murine Macrophages, Lee-Ann Allen, University of Iowa
Poster B67

Concurrent 8: The Human Microbiome in Health and Disease
Location: The Canyons
Chair: Elizabeth Grice, University of Pennsylvania
Co-Chair: Kari Ann Shirey, University of Maryland, Baltimore

2:30 pm Skin Microbiome and Host Responses in Health and Disease, Elizabeth Grice, University of Pennsylvania

34 3:00 pm TL1A Signaling Enhances the Differentiation of TH9 Cells and TH9-Driven Pathologies via STAT6 Signaling Pathways, Kathrin Michelsen, Cedars-Sinai Medical Center
Poster B70

35 3:15 pm Chronic Ethanol Consumption Alters Intestinal Microbiota Impairing Immune Function, Tasha Barr, University of California Riverside
Poster B71

36 3:30 pm Phosphoinositol Lipoarabinomannan Involvement in Mycobacterium smegmatis-Modulation of Neutrophil Functions, Irina Mirakla, University of Louisville, *SLB Travel Award Winner, Poster B72
### Concurrent 9: Epigenetic Regulation of Innate Immunity

**Location:** Arches  
Chair: Mihai Netea, Radboud University Nijmegen  
Co-Chair: Tiefu Liu, Wake Forest University School of Medicine

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
<th>Institution</th>
<th>Poster</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:30 pm</td>
<td>Trained Immunity: An Epigenetic Memory for Innate Immune Response</td>
<td>Mihai Netea</td>
<td>Radboud University Nijmegen</td>
<td>B75</td>
</tr>
<tr>
<td>3:00 pm</td>
<td>Jmjd3-Mediated Epigenetic Regulation of Inflammatory Cytokine Gene Expression in Serum Amyloid A-Stimulated Macrophages</td>
<td>Lei Sun</td>
<td>Shanghai Jiao Tong University</td>
<td></td>
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<tr>
<td>3:15 pm</td>
<td>NAD-Dependent SIRT4 Participates in the Resolution of Acute Inflammatory Response by Restoring Immunometabolic Homeostasis</td>
<td>Tie Fu Liu</td>
<td>Wake Forest School of Medicine</td>
<td>B76</td>
</tr>
<tr>
<td>3:30 pm</td>
<td>Inhibition of Heat Shock Protein 90 Alters Epigenetic Genes Important in Innate Immune Responses and Metabolism in a Mouse Model of Alcoholic Liver Injury</td>
<td>Pranoti Mandrekar</td>
<td>University of Massachusetts Medical School</td>
<td>B77</td>
</tr>
<tr>
<td>3:45 pm</td>
<td>Dynamic Programming of Innate Immune Responses by Varying Dosages of Endotoxin</td>
<td>Li Liwu</td>
<td>Virginia Tech</td>
<td>B78</td>
</tr>
</tbody>
</table>

### Concurrent 10: Neonatal Inflammation

**Location:** Bryce  
Chair: Steve Reed, Infectious Diseases Research Institute Seattle  
Co-Chair: Jessica Snowden, University of Nebraska Medical Center

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<th>Poster</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:30 pm</td>
<td>New Adjuvants for New Vaccines</td>
<td>Steve Reed</td>
<td>Infectious Diseases Research Institute Seattle</td>
<td></td>
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<tr>
<td>5:00 pm</td>
<td>The Alarmin High-Mobility Group Nucleosome-Binding 1 Protein Contributes to the Induction of Antitumor Immunity</td>
<td>De Yang</td>
<td>National Cancer Institute</td>
<td>B80</td>
</tr>
<tr>
<td>5:15 pm</td>
<td>Developmental Regulation of Human Immune Responses: Comparative Genome-Wide Profiling of Neonatal Monocytes</td>
<td>Bernard Kan</td>
<td>University of British Columbia</td>
<td>B81</td>
</tr>
<tr>
<td>5:30 pm</td>
<td>Do Peripheral Myeloid Cells Contribute to Brain Injury Following Neonatal Hypoxia-Ischemia?</td>
<td>Carina Mallard</td>
<td>University of Gothenburg</td>
<td>B82</td>
</tr>
<tr>
<td>5:45 pm</td>
<td>Are Routine Automated Complete Blood Counts with Manual Differentials for Determining Neonatal Neutrophil Composition Antiquated?</td>
<td>Shelley Lawrence</td>
<td>University of California San Diego</td>
<td>B83</td>
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</tbody>
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### Concurrent 11: Regulation of Innate Immune Signaling: Novel Mechanisms

**Location:** The Canyons  
Co-Chairs: Ann Richmond, Vanderbilt University, SLB President; Jerry Weiss, University of Iowa, IEIIS President

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<tbody>
<tr>
<td>4:30 pm</td>
<td>Mind Over Innate Immunity</td>
<td>Luis Ulloa</td>
<td>New Jersey Medical School</td>
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<tr>
<td>5:00 pm</td>
<td>The Role of Kupffer Cells in the Response to Intoxication and Burn Injury</td>
<td>Michael Chen</td>
<td>Loyola University Chicago</td>
<td>B87</td>
</tr>
</tbody>
</table>
Saturday, October 25th (con’t)

47 5:15 pm Human Host Defense Peptide LL-37 Enhances the LPS Uptake by Endothelial Cells without Cell Activation: A Possible Role in the LPS Clearance, Kaori Suzuki, Juntendo University School of Medicine Poster B88

48 5:30 pm The Palmitoylated α-Peptide/β-Peptoid Hybrid Pam-(Lys-βNSpe)6-NH2 is a Novel Host Defense Peptide Mimetic with Potent Anti-inflammatory Activity, Sarah Skovbakke, University of Copenhagen Theresa L. Gioannini Women in Science Travel Award Winner, IEIS Travel Award Winner, Poster B89

49 5:45 pm Refined Pathogenesis of S. aureus in Response to Neutrophil-Derived Signals Is Regulated by the Pathogen at the Single Amino Acid Level, Delisha Meishery, Montana State University, *SLB Travel Award Winner Poster, B90

22 6:00 pm Molecular Requirements for Activation and Antagonism of TLR4, Jerry Weiss, University of Iowa Poster B34

Concurrent 12: Inflammasomes: Mechanisms of Sterile and Infectious Inflammation
Location: Arches
Chair: Ed Miao, University of North Carolina at Chapel Hill
Co-Chair: Jason Barker, University of Iowa

50 4:30 pm Cytoplasmic LPS Activates Caspase-11: Implications in TLR4-Independent Endotoxic Shock, Ed Miao, University of North Carolina at Chapel Hill

51 5:00 pm NLRP12 Mediates Neutrophil Recruitment during Pulmonary Bacterial Infection, Fayyaz Sutterwala, University of Iowa Poster B97

52 5:15 pm Guanylate Binding Proteins Promote Caspase-11 Activation but not the Release of LPS from Chlamydia-